

Figure 1A

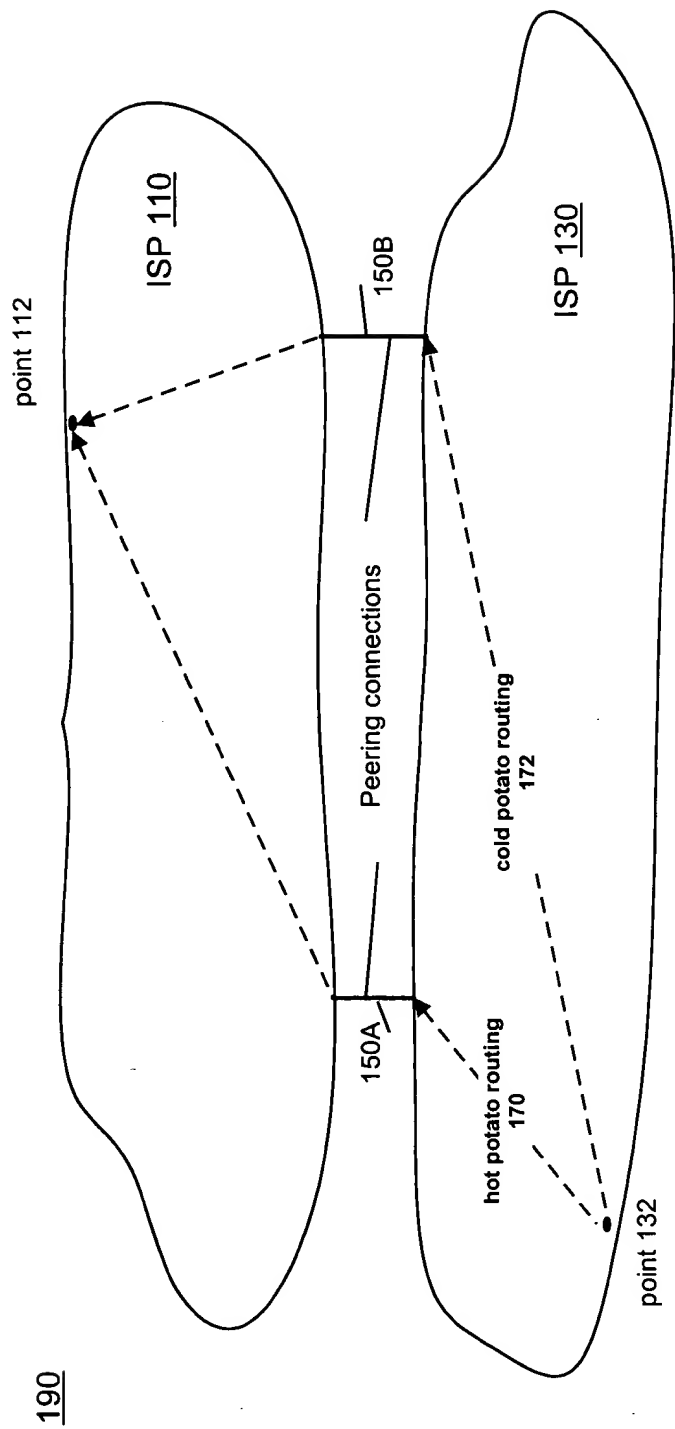


Figure 1B

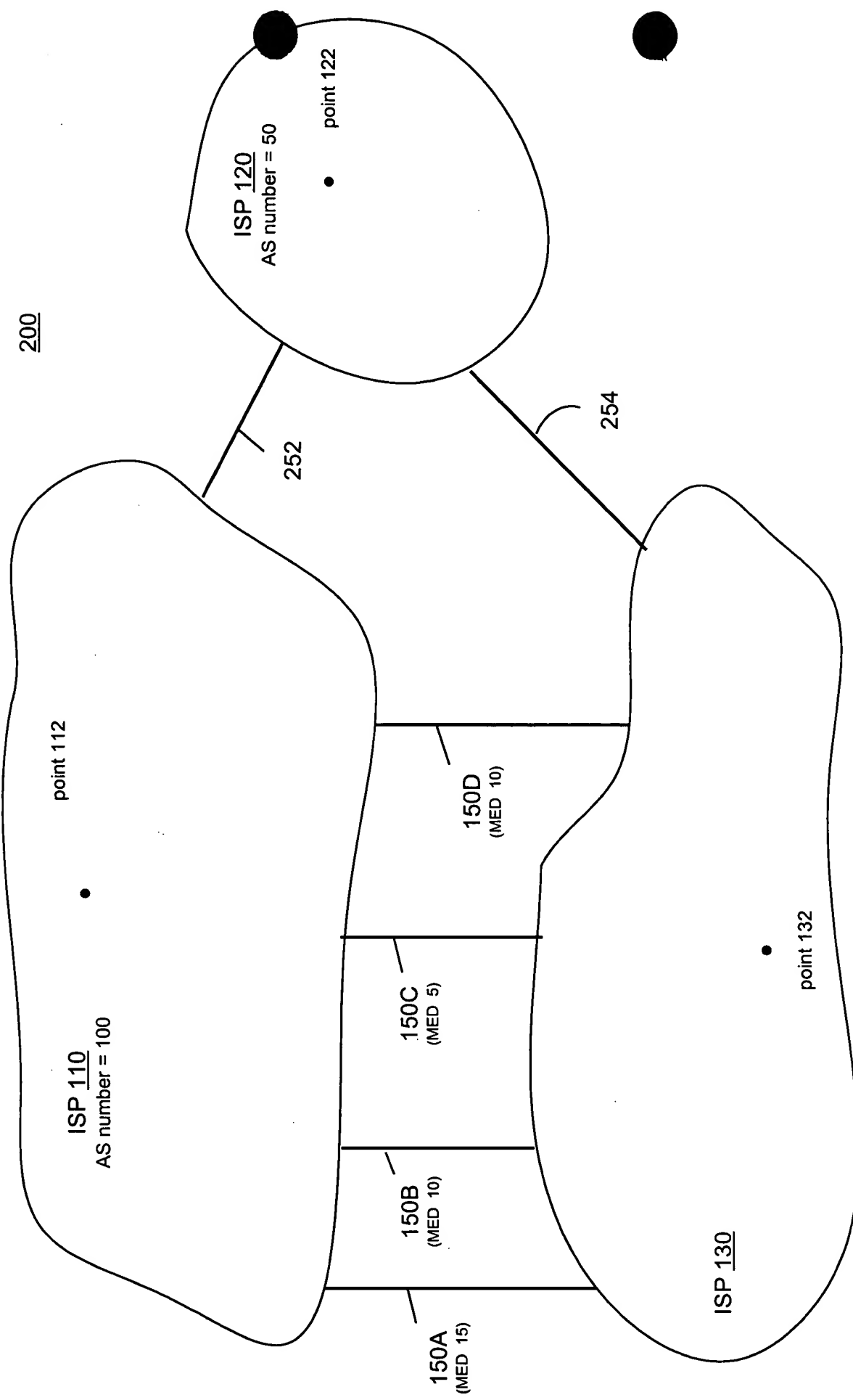
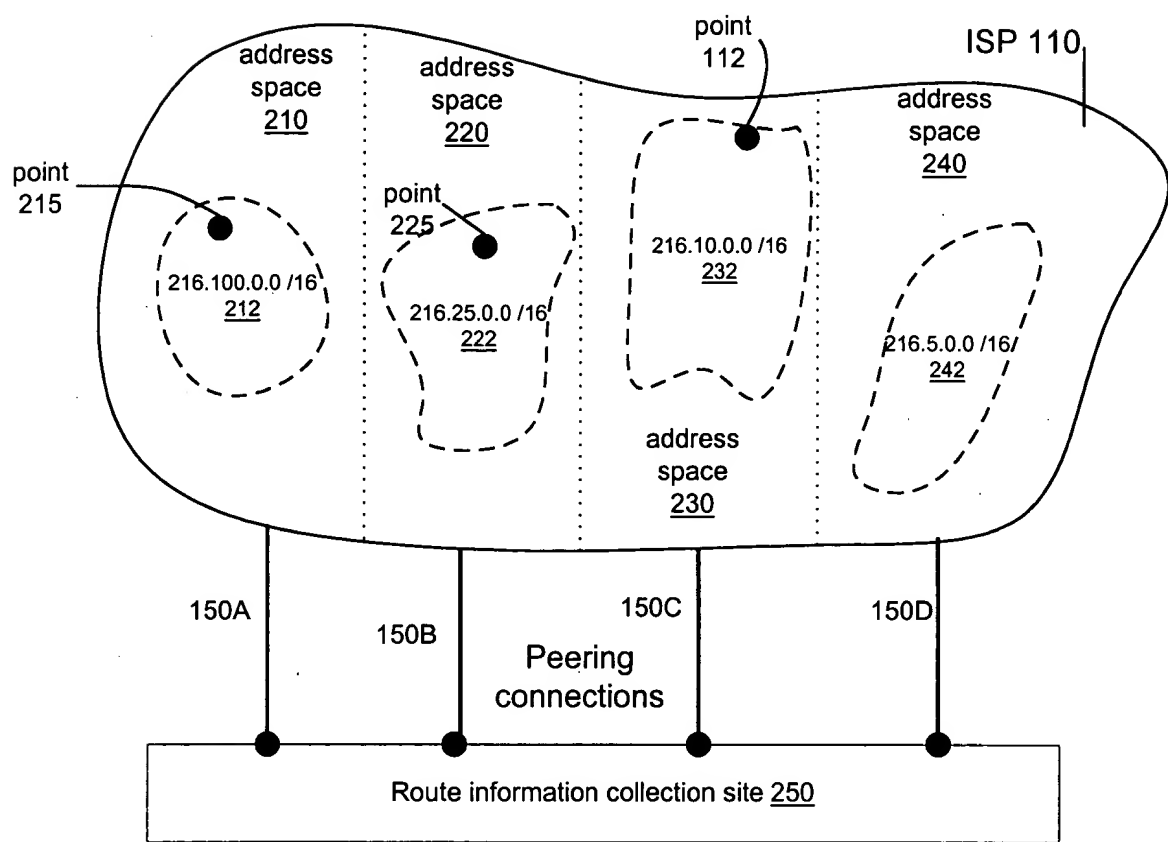


Figure 2A

Figure 2B



IP ADDRESS	PREFIX	ROUTE INTERFACE	% OF TRAFFIC SEEN BY SITE 250
216.0.0.0	/8	150A	50
216.0.0.0	/8	150B	50
216.0.0.0	/8	150C	0
216.0.0.0	/8	150D	0

IP ADDRESS	PREFIX	ROUTE INTERFACE	% OF TRAFFIC SEEN BY SITE 250
216.100.0.0	/16	150A	100
216.25.0.0	/16	150B	100
216.10.0.0	/16	150C	0
216.5.0.0	/16	150D	0

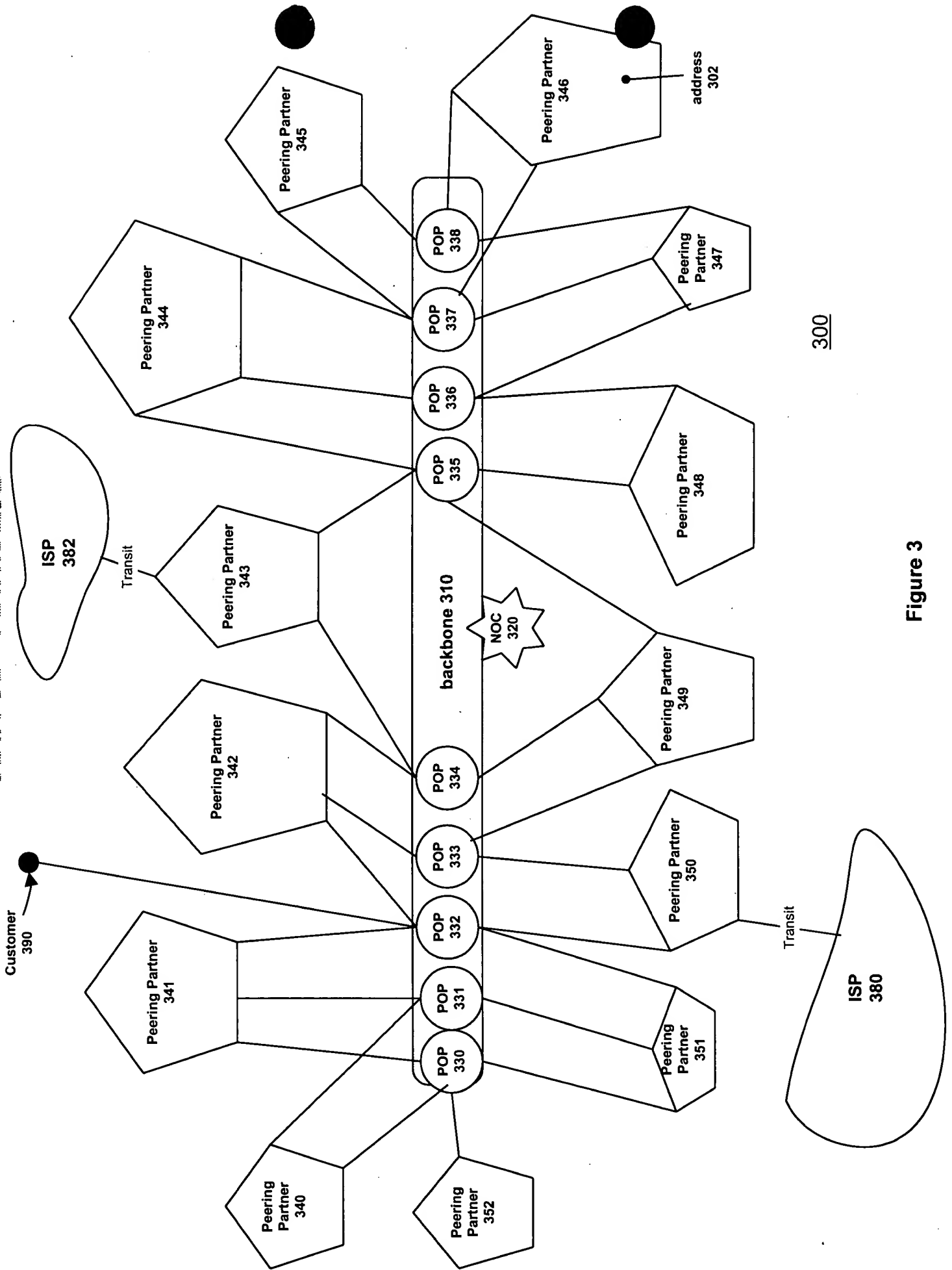


Figure 3

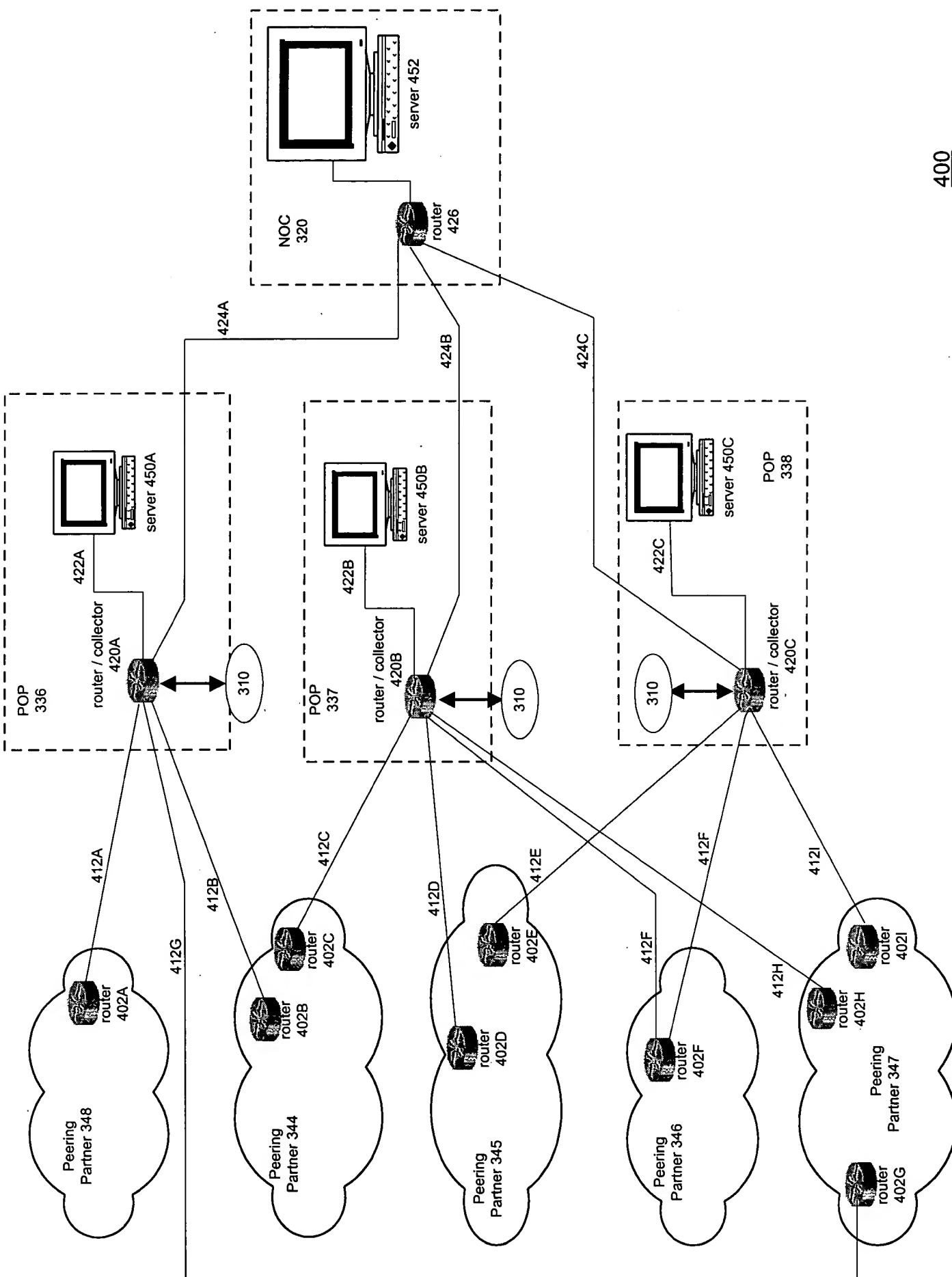


Figure 4

IP Statistics Data Table 500

IP Address	Mask	Prefix length	Exchange ID	Interface number	Packet count	Byte count	Strength	Pointer to associated route entry
140.150.0.0	11111111.11111111.11110000.0000	/20	POP 330	5	10000			
140.150.16.0	11111111.11111111.11110000.0000	/20	POP 330	5	10			
140.150.16.0	11111111.11111111.11110000.0000	/20	POP 330	6	100			
140.150.32.0	11111111.11111111.11110000.0000	/20	POP 330	5	10			
140.150.32.0	11111111.11111111.11110000.0000	/20	POP 330	7	100			

Figure 5A

Route Entry Table 510

IP Address	Mask	Prefix length	Exchange ID	Interface number	Strength	Next hop	Peer ID	AS Path	MED	Status flags	Packet count	Byte count
140.150.0.0	11111111.11111111.00000000.00000000	/16	POP 330	5		140.100.1.1	1	100	5		10020	
140.150.0.0	11111111.11111111.00000000.00000000	/16	POP 332	6			2	100 • 50	5		100	
140.150.0.0	11111111.11111111.00000000.00000000	/16	POP 334	7			4	100 • 200 • 50	10		100	

Figure 5B

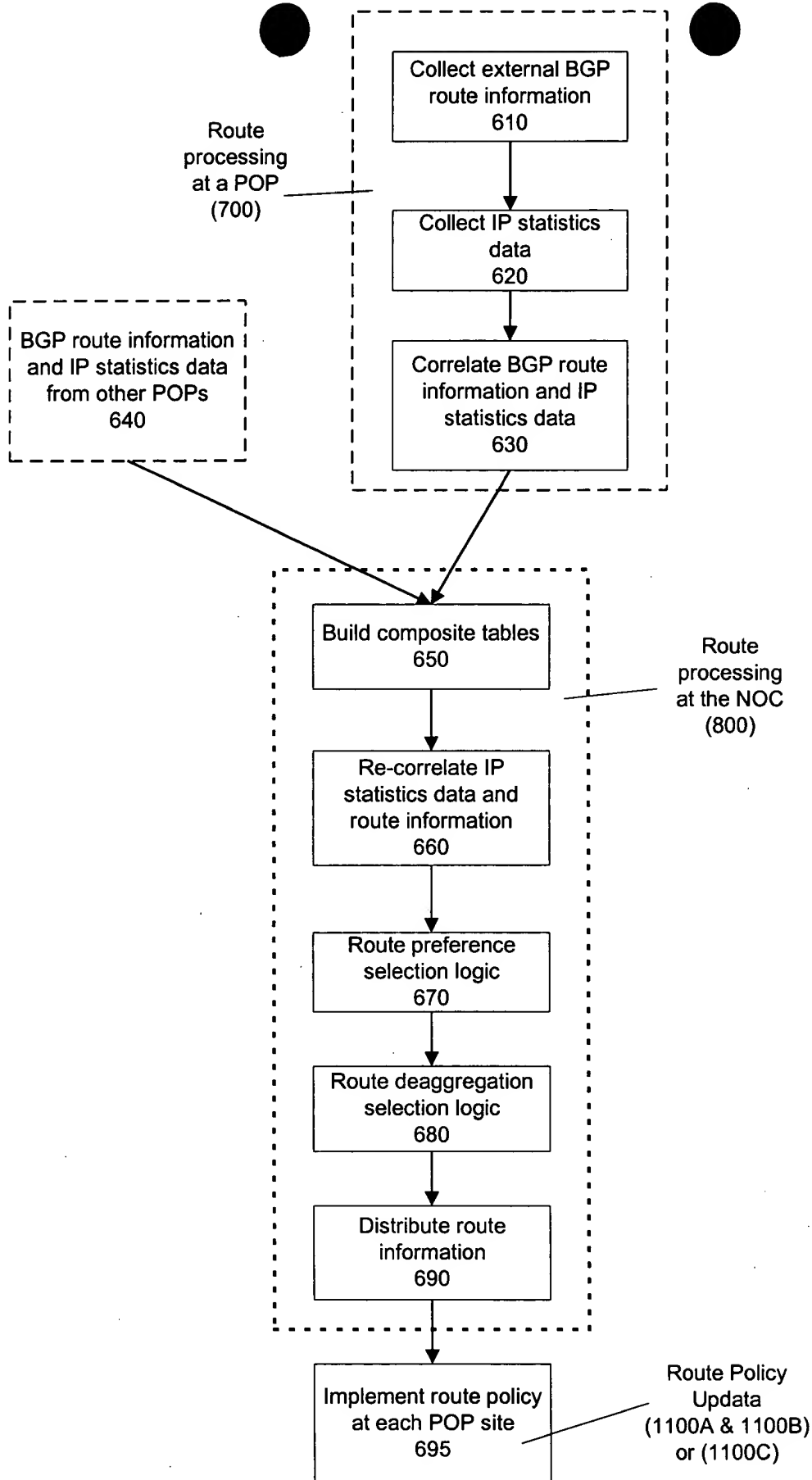


Figure 6

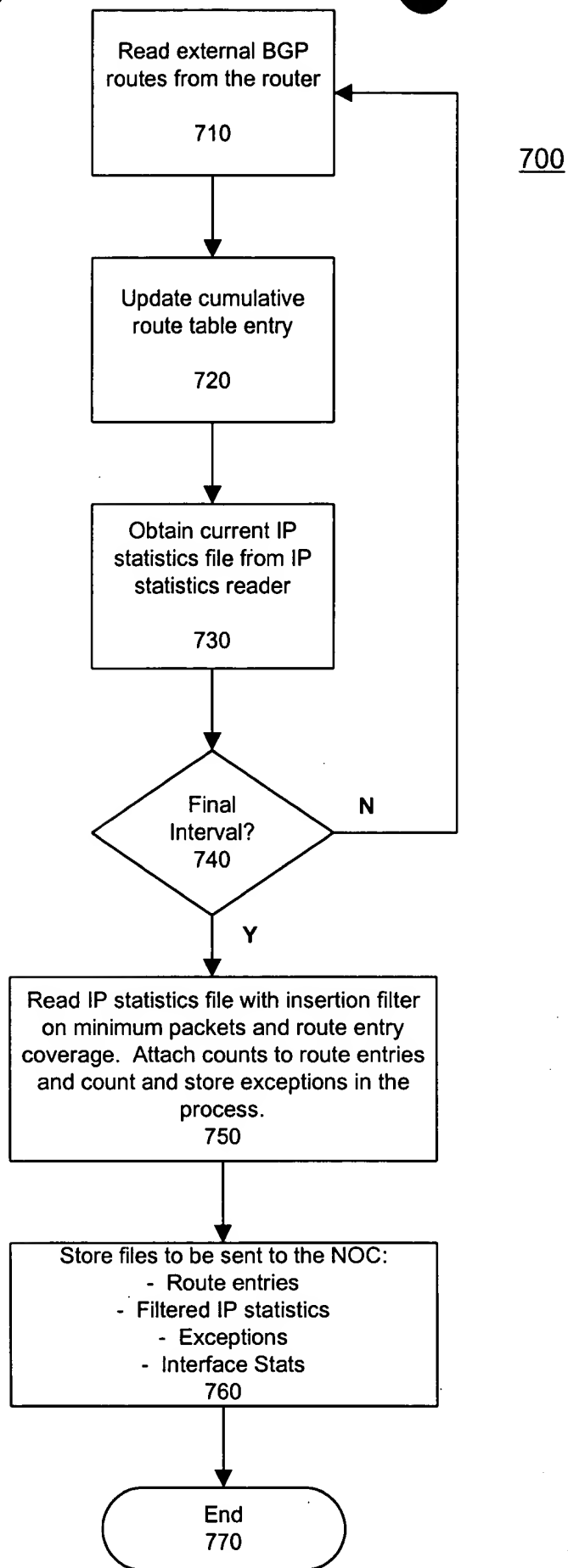


Figure 7

Downloaded from

Route Processing at the NOC

800

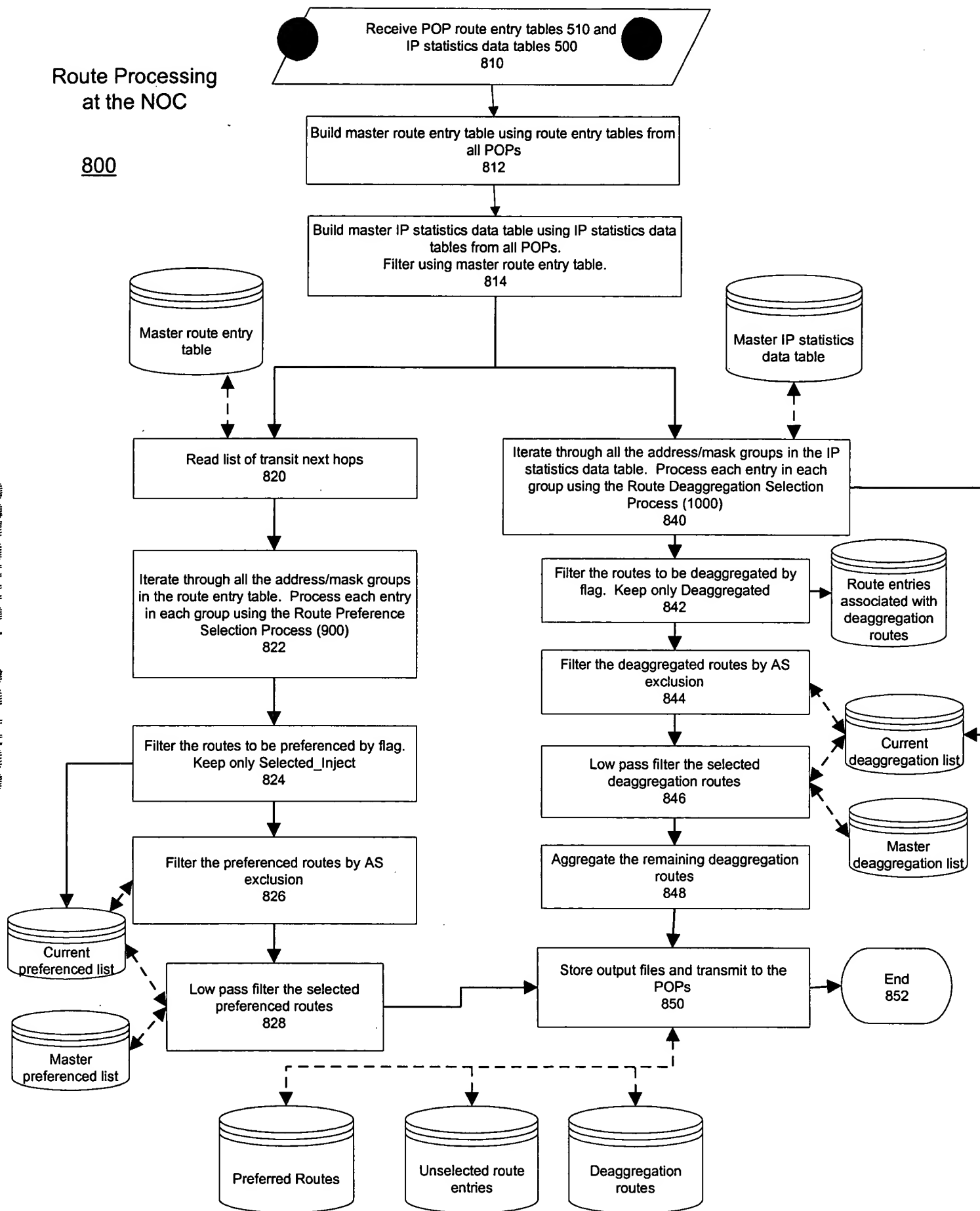


Figure 8

Route Preference Selection Process

900

Compare BGP parameters within route group

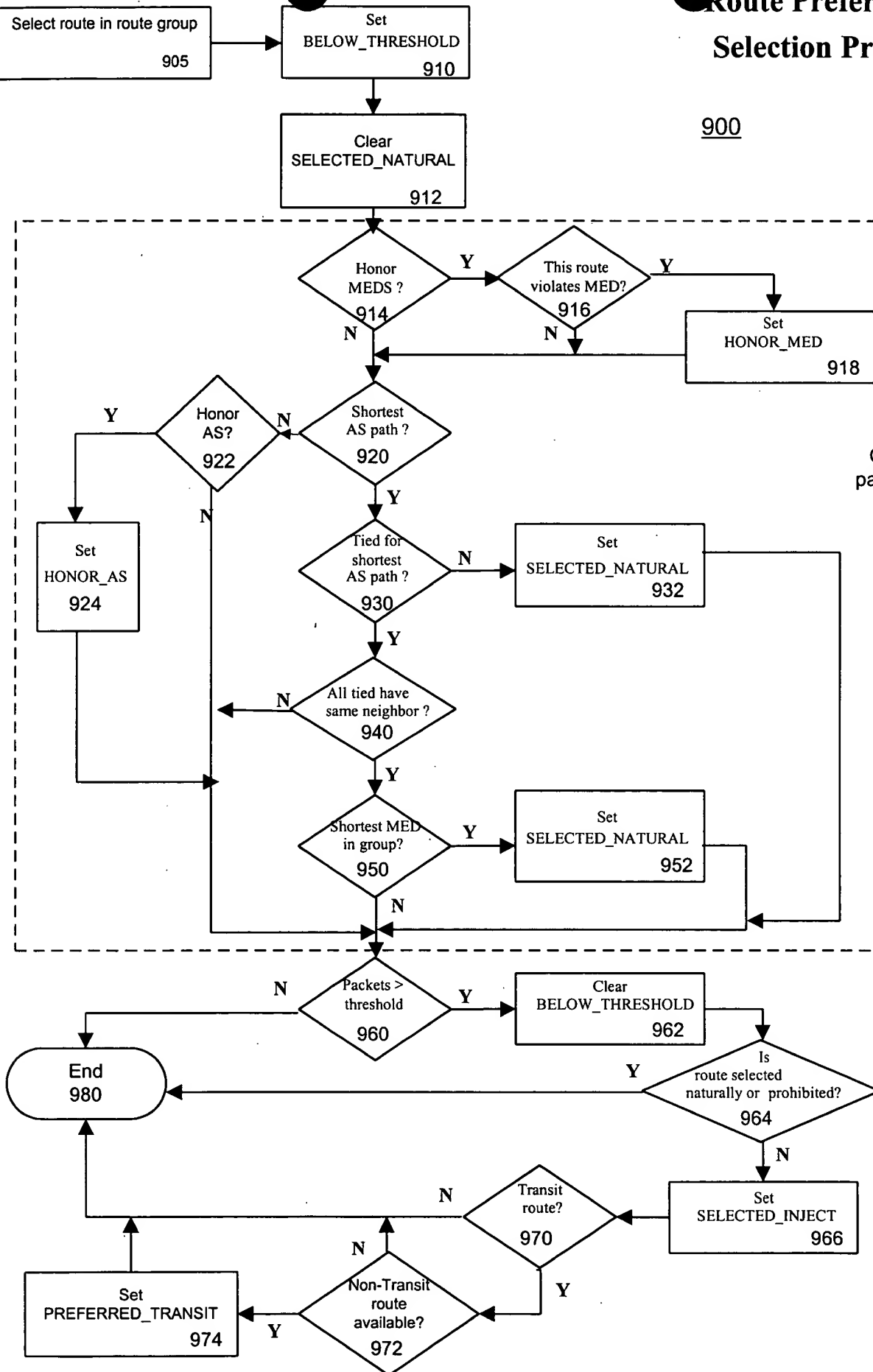


Figure 9

Route Deaggregation Selection Process

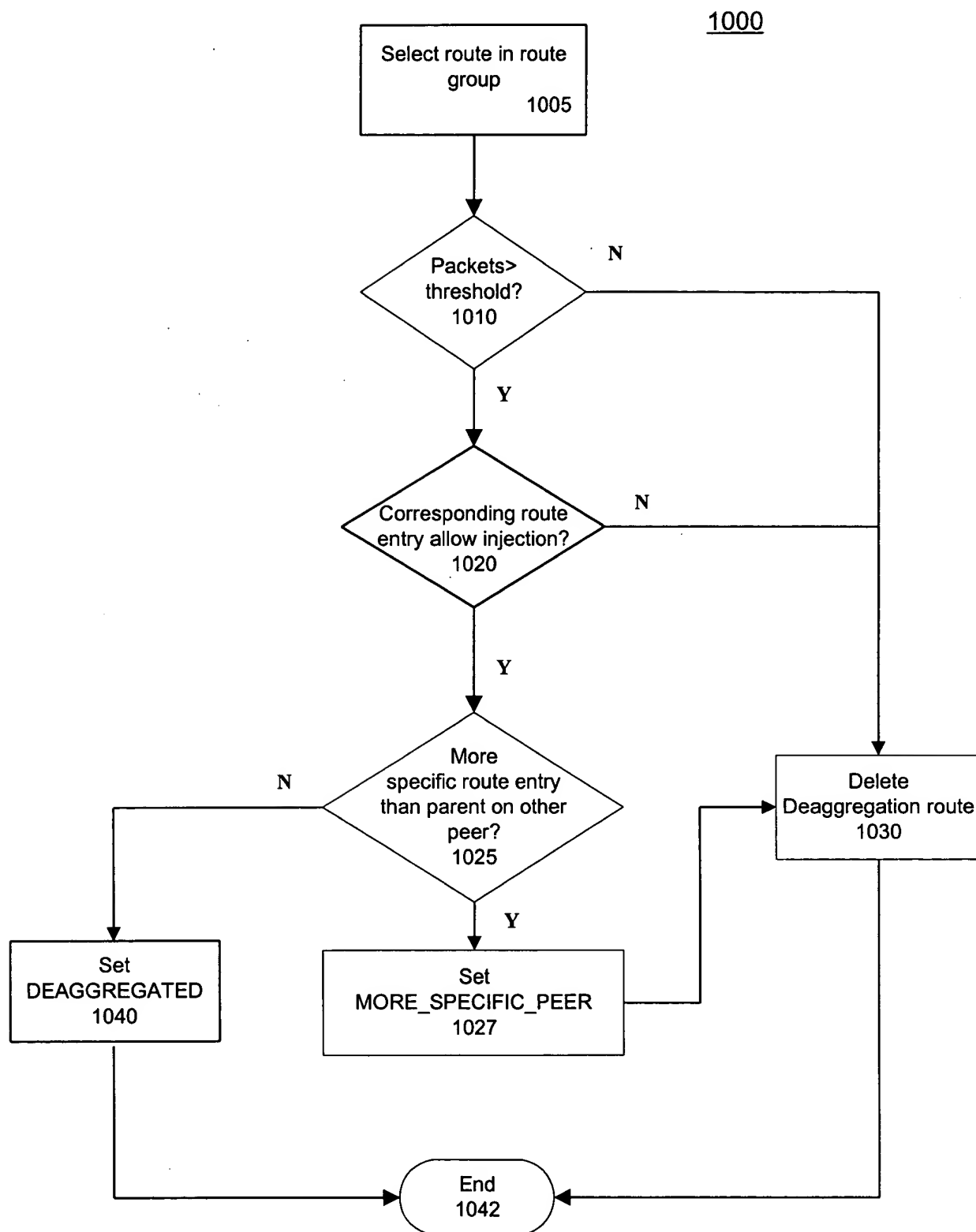


Figure 10

Figure 11A

1100B

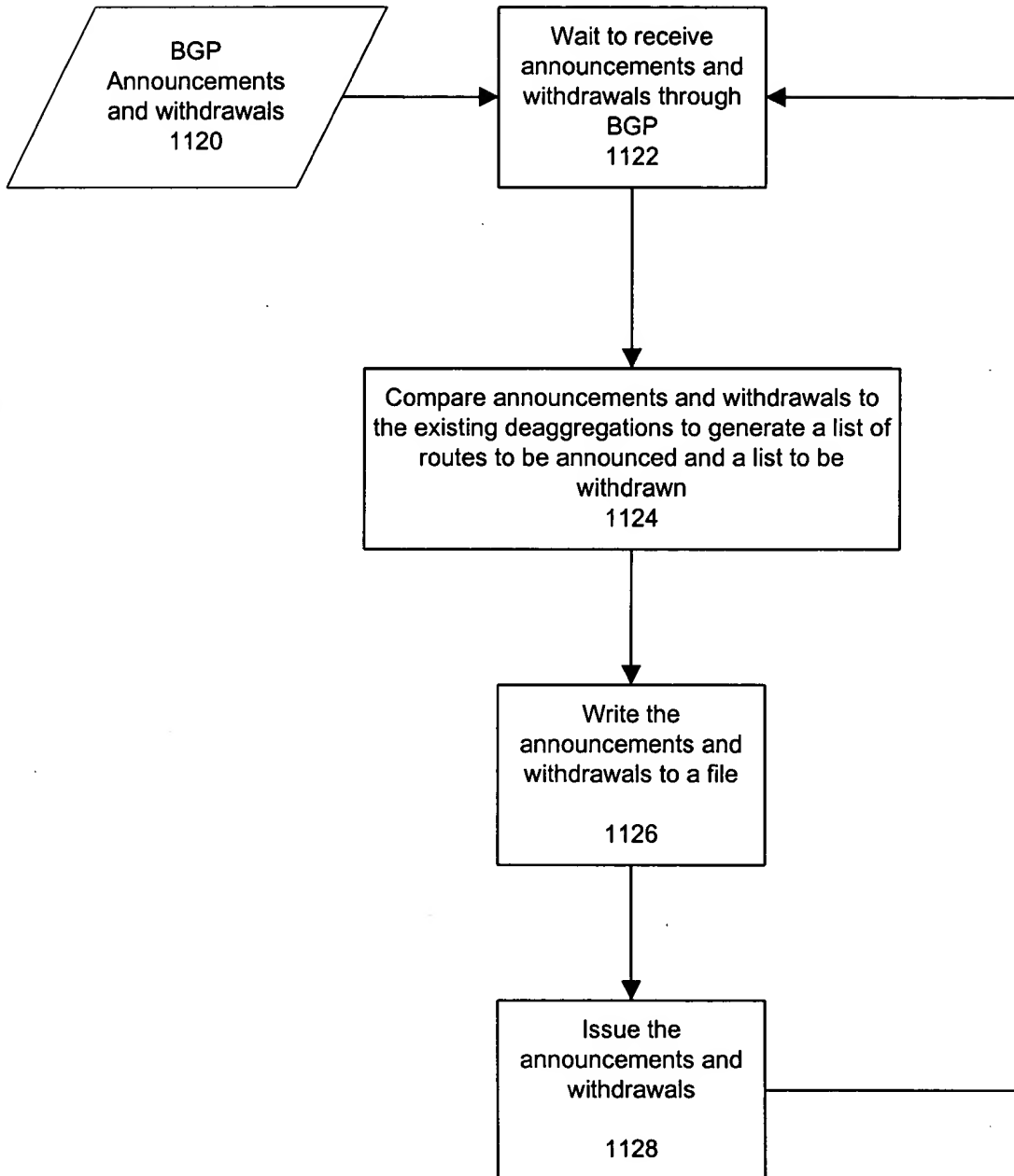


Figure 11B

Receive NOC
preferred and
deaggregated files.
1150

1100C

Read current
configuration from
router
1151

Build a Preferred route
changes file
1152

Build a deaggregated
route changes file
1154

Install BGP local
preferences and
deaggregated routes
1156

Figure 11C

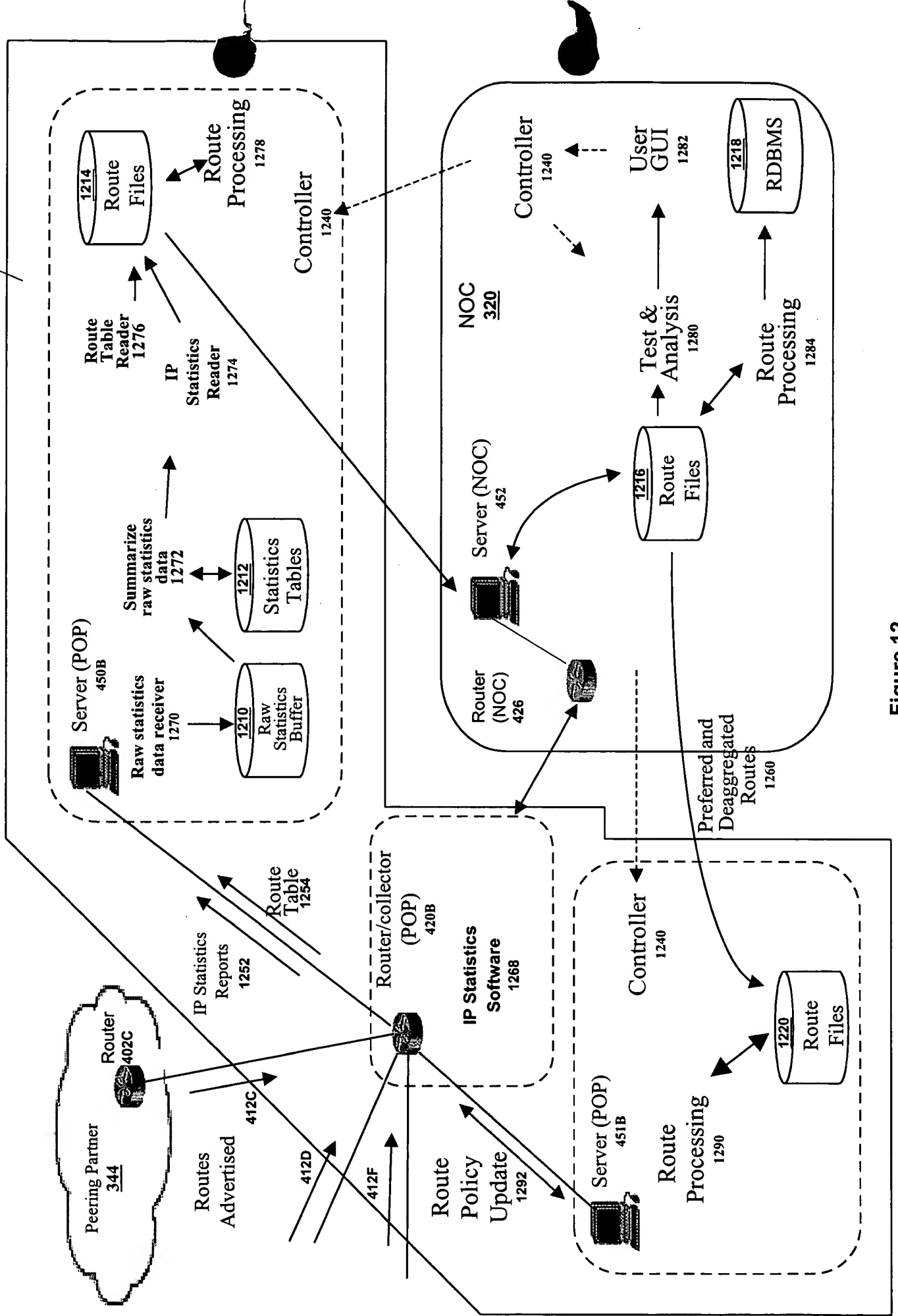


Figure 12